

Monitoring Data Record

Project Title: R-3427 (US 601 Widening) COE Action ID: 200421361 & 200421362
 Stream Name: UT Dry Branch (Site 6) DWQ Number: 3403
 City, County and other Location Information: US 601, Yadkin County (64+20-66+08)
 Date Construction Completed: Water turned 7-27-06 & Reforestation completed 3-10-06
 Monitoring Year: (5) of 5
 Ecoregion: _____ 8 digit HUC unit 03040101
 USGS Quad Name and Coordinates: _____

Rosgen Classification: _____

Length of Project: 220' Urban or Rural: Rural Watershed Size: _____
 Monitoring DATA collected by: J. Young and J. Lancaster Date: 8/16/11
 Applicant Information:

Name: NCDOT Roadside Environmental Unit
 Address: 1425 Rock Quarry Road Raleigh, NC 27610
 Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov

Consultant Information:

Name: _____
 Address: _____
 Telephone Number: _____ Email address: _____

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level 1 ~~2~~ ~~3~~

Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site:

A total of 8 photos were taken from 3 photo point locations.

Dates reference photos have been taken at this site: 1/6/07, 8/22/07, 1/30/08, 5/28/08, 1/13/09, 6/23/09, 3/9/10, 6/2/10, 1/31/11, 8/16/11

Individual from whom additional photos can be obtained (name, address, phone): _____

Other Information relative to site photo reference: A site map with photo point locations is attached to this report.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Small pockets of kudzu still exist along roadway shoulder.

Estimated causes and proposed/required remedial action: Division Roadside sprayed the kudzu during the summer of 2010. Division Roadside will continue to treat the kudzu in 2011.

ADDITIONAL COMMENTS: Planted vegetation is surviving. Planted vegetation includes black willow, silky dogwood, green ash, river birch, and sycamore. Other vegetation noted on site includes: sweetgum, pine, fennel, briars, alder, red maple, sedge, goldenrod, woolgrass, *Juncus* sp., *Sagittaria* sp., cattail, kudzu, poplar, and various grasses. NCDOT proposes to discontinue plant survival monitoring at this stream relocation.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

Stream is highly stabilized for the Year 5 Summer evaluation. All cross vanes are functioning properly and streambanks are stabilized with woody and herbaceous vegetation. A beaver dam was noted downstream of Photo Point #3 @ STA.64+60-L- RT. NCDOT has breached the beaver dam and has contacted the USDA to remove the beaver onsite. Throughout the 5-year monitoring period NCDOT visually noted 3 bankfull events in January 2007, March 2010, and January 2011. NCDOT proposes to discontinue channel stability monitoring at this stream relocation.

Date Inspected	STA 64+60-L- RT. (PP#3 Downstream)	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?	Beaver Dam				

Section 4. DEBIT LEDGER

The entire UT Dry Branch stream mitigation site was used for the R-3427 project to compensate for unavoidable stream impacts.

UT Dry Branch



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

UT Dry Branch



Photo Point #3 (Buffer Area)

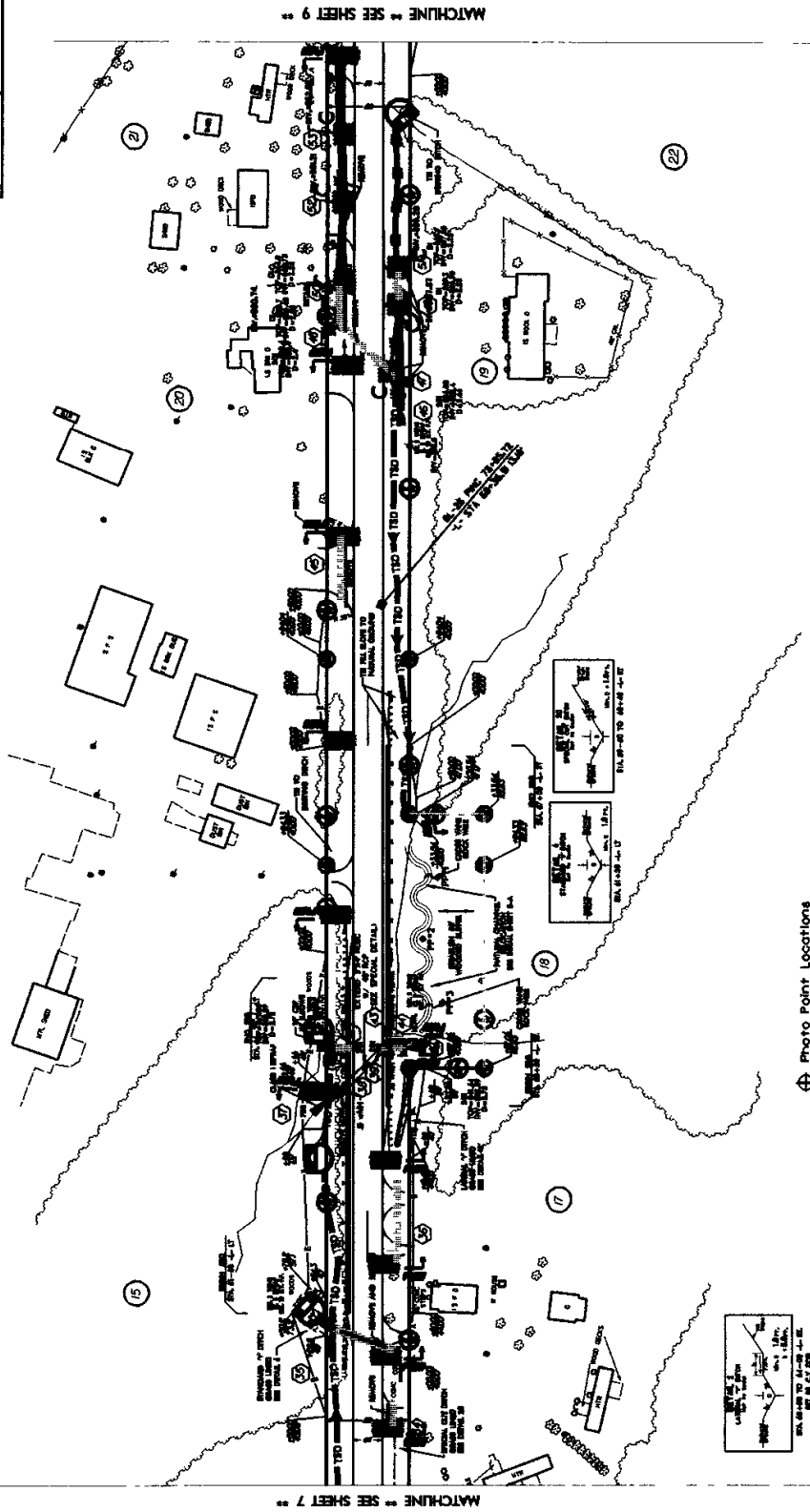


Photo Point #3 (Buffer Area)

Year 5 Summer – August 2011

PROJECT NO.	7-3427
DATE	10-1-57
BY	W. J. H. H.
CHECKED BY	W. J. H. H.
APPROVED BY	W. J. H. H.

UT Dry Branch
R-3427
Yadkin County



⊕ Photo Point Locations

MATCHLINE -- SEE SHEET 9 --

MATCHLINE -- SEE SHEET 7 --